

Fig. I.1A

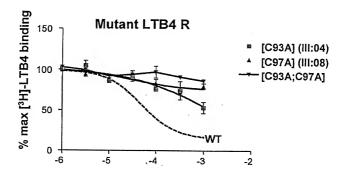


Fig. I.1B

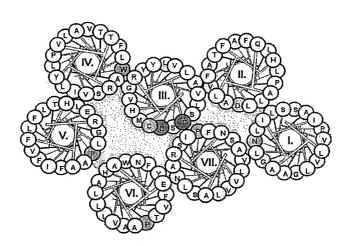


Fig. I.1C

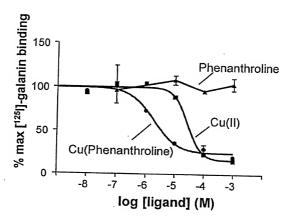


Fig. I.2A

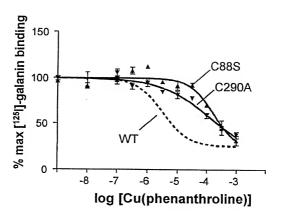


Fig. I.2B

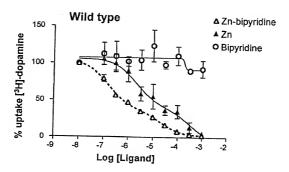


Fig. I.3A

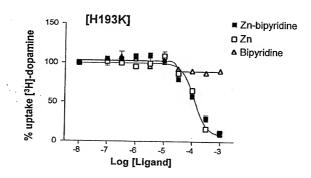
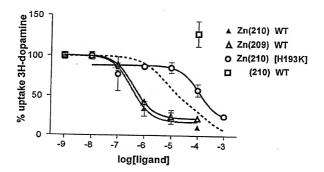


Fig. I.3B



Zn(209)

Fig. I.3C

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2 2'-Bloundine completes	Zn ± SEM (n) Cu ± SEM (n) Zn + sem (n) Cr + cr (n)	Cu + SEM	150 + 30		25 ± 3	(2) 46 ± 9 (2) 120±20 (2) 13 ± 4 (2) 160+30		63 ± 4 (5) 45±12 (4) 21 ± 2 (4) 13± 2		0 H C-1
9	5	<u>E</u>	(4)	. 1	<u>e</u>	0	į	4	5	ì
Invited	2	SEM	9		0 H	4		7	4	
2.00		5	390	2	5	5		2	6	
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1,10-Phenanthroline-complexes		OU H OEM	480 ± 60	9	0 1 07	120 ± 20		45 ± 12	6.8 ± 1.2 (3) 150 ± 20 (2)	
nthro	3		3	ę	•	Ø		<u>(9</u>	9	
hena	ü	5	22	Ľ	•	6		4	7	1
1,10-PI	4	1	430 ±	4	1	46 ±		£	6.8	
-	ε	1	· ②	6	<u> </u>	<u>8</u>	_	ଉ	ව	1
lons	Cu + SEM		320 ±20 (5) 370±30 (5) 490 ±50 (4) 480±60 (3) 390 ±60 (4) 150+30	17 ± 3 (3) 28 ± 5 (2) 28 + 5 (2) 28 ± 9 (3)		13 ± 5 (2) 120 ± 20		41 ± 9 (6) 82 ± 15	9.1 ± 1 (3) 330 ± 50 (3)	
0	3	1	9	9	:	8		<u>©</u>	ල	1
	SEM	ı	8	ო		10	•	o	-	l
	Zu #		±	17 ±		13 +	:	++	9.1	
				11:24;111:04	-			90:IIV:80:III CLEZW:UZ1	V:05;VI:24	
		. ,	nnk 1	ZH.		93H;N109H III:05;V:01	0,000,000	טואישים.	72H	

Fig. II.1A

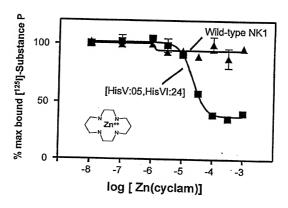


Fig. II.1B

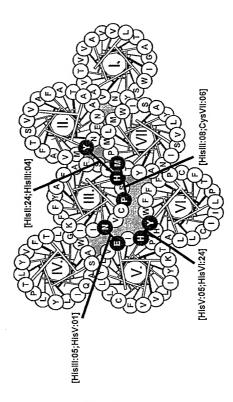


Fig. II.1C

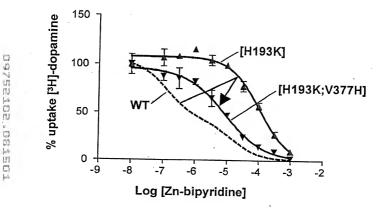


Fig. II.2A

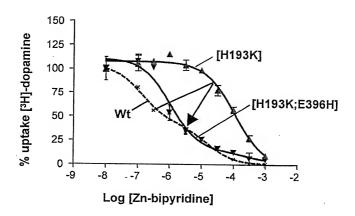


Fig. II.2B

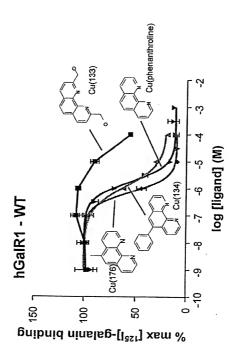


Fig. III.1A

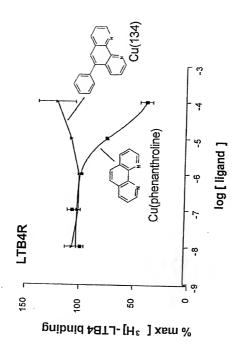


Fig. III.1B

[HisV:05;HisVI:24]-NK1

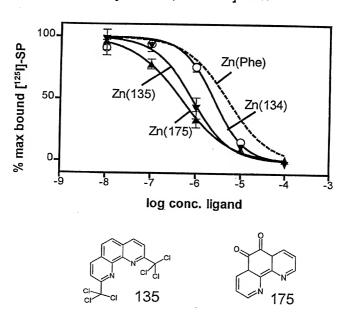


Fig. III.2A

[HisIII:08;CysVII:06]-NK1

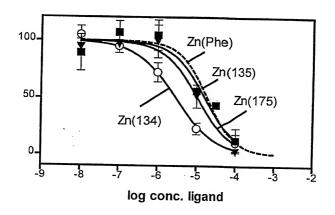


Fig. III.2B

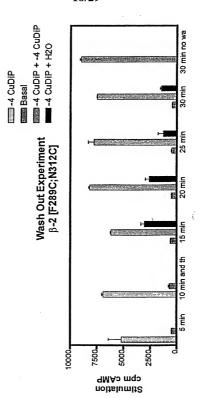


Fig. III.3A

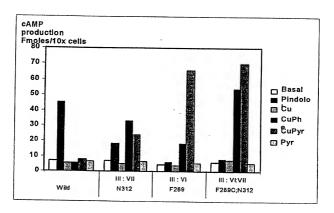


Fig. III.3B

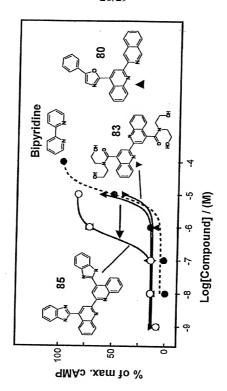


Fig. III.3C

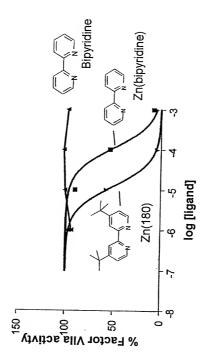


Fig. III.4A

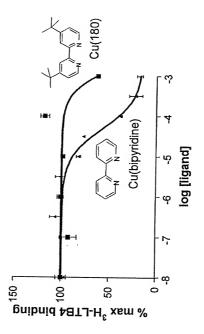


Fig. III.4B

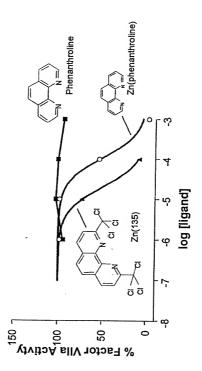


Fig. III.4C

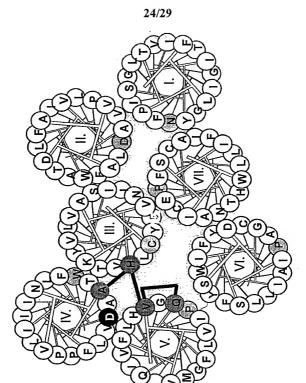


Fig. III.5

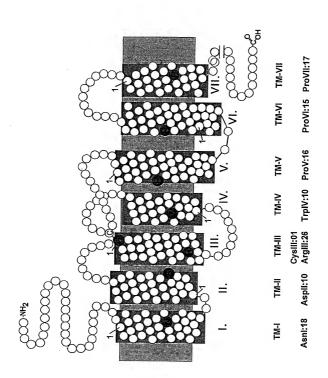


Fig. IV

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	26/29			
	Metal ion	Log K ₁	Log K ₂	Log K ₃
	Co ²⁺	6.4	11.3	16.6
	Co ²⁺ Ni ²⁺ Zn ²⁺ Cu ²⁺	5.8 7.0 5.3 8.1	11.3 13.9 9.6 13.6	16.0 16.6 13.3 17.0
	Zn ²⁺	2.8	5.2	
	Cu ²⁺	5.1		
	Zn ²⁺	7.6	12.1	
	Zn ²⁺ Cu ²⁺	5.0 7.4	9.4 13.8	12.7
	Zn ²⁺ Cu ²⁺	6.6	12.6 15.0	18.3 20.0
N N	Zn ²⁺ Cu ²⁺	4.1 5.2	7.7 11.0	19.1
HO-N H ₂ N NH ₂	Zn ²⁺	4.1	7.8	9.5

Figur V

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Compound Structure	Structure	Name	Provider
62		1,10-Phenanthroline	Sigma
82	$\langle N \rangle$	Dipyridine	Sigma
09		Cyclam	Aldrich
80	\$ \$7\$40	2-(isoquinoline-3-yl)-4-(5-phenyl-oxazol-2-yl)- quinoline	ChemDiv Inc.
83	\$8 \$6	2.2'-di(4-(N.N-(2- hydroxyethyl)carboxamide)quinoline)	ChemDiv Inc.

Fig. VI

ChemDiv Inc.	Sigma-Aldrich	Sigma-Aldrich	Sigma-Aldrich	Aldrich
2,2'-di(4-(benzimidazol-2-yl)-quinoline)	2,9-dimethanol-1,10,phenanthroline	5-phenyl-1,10-phenanthroline	2,9-bis(trichloromethyl)-1,10-phenanthroline	1,10-phenanthroline-5,6-dione
00 g	HO OH		55	
85	133	134	135	175

Fig. VI

	-5		
176		5-methyl-1,10-phenanthroline	Sigma
180	1,00 Col. 1,100 Col. 1	4,4'-DI-tert-butyl-2,2'-dipyridyl	Aldrich
183		Dipyrido[3,2-e.2,3'-c]phenazine hemhydrate	ABCR GmbH & Co
209	HO, NH,	2-pyridylamidoxime	7TM Pharma
210	N O CH,	-сн, 2-рулідујатідохіте, О-асеtyl	7TM Pharma

Fig. VI